Manitoba

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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the month of March 2008. This information includes the number of reported cases of notifiable communicable diseases for which individuals in Manitoba tested positive* on laboratory samples and/or clinical reports, during the month of March 2008.

Communicable Diseases (non STI-BBPs)

In total, there were **398** new infections occurring across 22 communicable diseases** (excluding sexually transmitted infections and HIV) in March 2008. The observed numbers of cases were within the statistically expected range for all of the reported communicable diseases with the exception of the following diseases:

- MRSA – 173 cases reported, 0 – 166 cases expected
- Salmonella –30 cases reported, 4-24 cases expected

The expected number of cases and accompanying range is based on the statistical number of cases during February, March and April, 2003-2008.

When investigated, no clusters of linked Salmonella cases or sources were found. MRSA positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals, who have no symptoms and are found with admission screening activities at facilities. If facilities increase their screening activities, it would result in a rise in colonized MRSA cases. Together MRSA and *Clostridium difficile* accounted for 61% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens (STI-BBPs)

There were **617** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in March:

- 504 cases of chlamydia (Ct)
- 58 cases of gonorrhoea (GC)
- 53 co-infections of Ct and GC and
- 2 cases of syphilis

Forty-four percent of all GC and Ct cases in the province were reported among females of age group 15-24 years. 51% all Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 17% were from the Burntwood Health Region.

In March, 36 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Four Manitobans tested positive for HIV in March. A new case of HIV infection is defined as a positive test with a unique code that has not been previously associated with a positive test result in Manitoba. The cases reported in March were all males, between 25 and 49 years of age.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are <u>not referred out</u> for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA) (ICD9 B95.6)
- Schistosomiasis (ICD9: 120)
- *Strongyloides* (ICD9: 127.2)
- Vancomycin resistant enterococci (VRE) (ICD9 B96.8)

The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health <u>for information only</u>:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simplex (Epstein Barr, CSF only)

All other diseases are referred out for further public health <u>follow-up and investigation</u>

Please feel free to contact me should you have any questions about this report.
Thank you.

Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR March 2008

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2007	2008	Expected*	Ex. Range**	2007	2008
006.9	AMEBIASIS	3	3	3	0-8	10	8
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		
320.0	BAC. MENINGITIS - HAEM			0	0-0		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
116.0	BLASTOMYCOSIS	2	1		***	8	2
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-2	1	
008.43	CAMPYLOBACTER	17	14	15	2-28	42	44
558.2	CLOSTRIDIUM DIFFICILE	86	68		***	314	215
046.1	CREUTZFELD-JACOB DISEASE				***		
007.8	CRYPTOSPORIDIOSIS			2	0-5	7	4
061.0	DENGUE FEVER	1		0	0-1	1	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-0		
032	DIPHTHERIA CASES			0	0-0		1
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1	1	1
008.0	E. COLI-VEROTOXIGENIC	4	2	4	0-11	5	6
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	7	9	8	3-13	26	21
041.5	H.I.B.-NON MTGS			0	0-2		1
041.59	HAEM. INFLUENZAE (non-B)	2	2		***	4	4
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME	1		0	0-1	1	
070.1	HEPATITIS A		1	1	0-3	4	3
070.3	HEPATITIS B			0	0-1	1	2
070.51	HEPATITIS C	32	36	34	12-56	87	94
487.1A	INFLUENZA A	20	16		***	67	72
487.1B	INFLUENZA B		9		***	1	28
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1		2
088.81	LYME DISEASE			0	0-0		
084	MALARIA	1		1	0-3	1	4
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF	2	1	0	0-1	3	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD		1	0	0-1		2
B95.6	MRSA	141	173	81	0-166	455	499
072.9	MUMPS			0	0-1		
036.89	N.MENINGITIDIS OTHER			0	0-1		2
728.86	NECROTIZING FASCIITIS		1	0	0-1		2
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		2	0-8	3	7
038.2	PNEUM. SEPTICEMIA	6	11	7	0-15	28	32
073.9	PSITTACOSIS			0	0-0		
083.0	Q FEVER			0	0-1		1

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2007	2008	Expected*	Ex. Range**	2007	2008
056.9	RUBELLA			0	0-1		
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-4	1	
003.0	SALMONELLA	20	30	14	4-24	70	67
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	2	1	2	0-5	3	7
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK	1			***	1	2
481.9	STREP PNEUMONIA - PR			0	0-0		
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE		1	1	0-3	1	2
127.2	STRONGYLOIDES	2		0	0-1	6	
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	2	2	0-5	5	5
011	TUBERCULOSIS - RESP.	8	8	8	6-10	22	20
010	TUBERCULOSIS-PRIM.			2	0-7	1	
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID			0	0-0		
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	4	8		***	15	16
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION				***		
198	WNV NEUROLOGICAL SYNDROME				***		
197	WNV NON-NEUROLOGICAL SYND				***		
066.3	WNV UNCLASSIFIED				***		
008.44	YERSINIA ENTEROCOLITICA	2		1	0-3	5	
		367	**398**			**1201**	**1178**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR March 2008

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
006.9	AMEBIASIS									1						1						1							3
036.0	BAC.MGTS-NMGTS(MGCCL MGTS			1																									1
116.0	BLASTOMYCOSIS															1													1
008.43	CAMPYLOBACTER			1						1		1		2		1	3	2					1		1	1			14
558.2	CLOSTRIDIUM DIFFICILE		1						2					1	2	3	2	3	2	5	7	6	7	5	3	9	10		68
008.0	E.COLI 0157												1		1														2
007.1	GIARDIA LAMBLIA			1	1		1			1					1			1		1		1		1					9
041.59	HAEM. INFLUENZAE (non-B)	1																				1							2
070.1	HEPATITIS A										1																		1
070.51	HEPATITIS C											2		2	5	4	6	4	5	1	3	2			1			1	36
487.1A	INFLUENZA A	1	1	2	1			1								1	2	1	1		1					3	1		16
487.1B	INFLUENZA B						1	1				1					1	2		2					1				9
036.2	MENINGOCOCCEMIA(MGCCEMI A								1																				1
B95.6	MRSA	2	4	5	8	3	4	7	4	6	7	7	2	7	4	9	9	4	13	7	11	5	12	6	7	12	8		173
728.86	NECROTIZING FASCIITIS																	1											1
003.0	SALMONELLA			1	3	1	1					2	1	1	1	4	2	2	2	1		3	3	1			1		30
004	SHIGELLOSIS													1															1
481	STREP. PNEUMONIAE PNEUMON																		1										1
038.2	STREP.PNEUMOCOCCAL SEPTIC		2		1								1			1			1		2		2				1		11
013	TUBERCULOSIS - NON-RESP.														1												1		2
011	TUBERCULOSIS - RESP.					1									1		1		5										8
B96.8	VANCOMYCIN RES. ENTER.																			2	1		2	1	2				8
047.9	VIRAL MENINGITIS-UNSPEC							1																					1
		4	8	11	14	5	7	10	7	9	8	13	5	14	16	25	26	20	30	19	25	19	27	14	15	25	22		399

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR March 2008

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	3																					3
036.0	BAC.MGTS-NMGTS(MGCCL M GTS																1						1
116.0	BLASTOMYCOSIS														1								1
008.43	CAMPYLOBACTER	8	1								1		2	1			1						14
558.2	CLOSTRIDIUM DIFFICILE	47	4		1		1		4		2		3		1		1	1	1		1	1	68
008.0	E.COLI 0157	1									1												2
007.1	GIARDIA LAMBLIA	8																	1				9
041.59	HAEM. INFLUENZAE (non-B)	2																					2
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	25	2				1	1	1		2		2								2		36
487.1A	INFLUENZA A	6	1		1		1		3		2		1		1								16
487.1B	INFLUENZA B						1				3		5										9
036.2	MENINGOCOCCEMIA(MGCCE MIA				1																		1
B95.6	MRSA	63	6		3		2		6		6		4		3	2	4	50	24				173
728.86	NECROTIZING FASCIITIS	1																					1
003.0	SALMONELLA	17	1						3		3		1				1	3			1		30
004	SHIGELLOSIS	1																					1
481	STREP. PNEUMONIAE PNEU MON	1																					1
038.2	STREP.PNEUMOCOCCAL SE PTIC	6															1	4					11
013	TUBERCULOSIS - NON-RESP.				1							1											2
011	TUBERCULOSIS - RESP.	1		1														6					8
B96.8	VANCOMYCIN RES. ENTER.	4									2				2								8
047.9	VIRAL MENINGITIS-UNSPEC										1												1
		195	15	1	7		6	1	17		23	1	18	1	8	2	9	64	26		4	1	399

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction

STD Infection Summary Report - March 2008

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	**2007**	**2008**	**2007**	**2008**
All Chlamydia Infections	393	557	1169	1776
All Gonorrhea Infections (including PRNG)	100	111	304	368
All Syphilis Infections	2	2	8	8
Gonorrhea & Chlamydia Co-infections	45	53	113	177
Penicillin Resistant Gonorrhea Infections (PRNG)				
Suspect PRNG				
HIV	12	4	26	17

Total Number of STD Cases by Age and Gender - March 2008

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
Chlamydia Only Cases							4		122	41	108	69	52	27	30	25	6	13	6	1								504
Gonorrhea Only Cases									5	5	14	9	5	5	3	4	3	2	2			1						58
Syphilis Only Cases															1								1					2
GC and CT Cases									12	5	8	7	5	4	4	4		4										53
							4		139	51	130	85	62	36	38	33	9	19	8	1		1	1					617
HIV														1		1		2										4

Regional STD Distribution - March 2008

Disease/Infection	**Winnipeg**	**Brandon**	**N.Eastman**		**S.Eastman**		**Interlake**		**Central**		**Assiniboine**		**Parkland**		**Norman**		**Burntwood**		**Churchill**	**OOP**	**Missing**	**TOTAL**
Case Referred to:*			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
All Chlamydia Infections	286	28	9	6		10	3	20	5	28	1	19	1	15	5	19	62	32		6	2	557
All Gonorrhea Infections	46	1	3	5		2	1	1	1	1		4		2		5	27	8		3	1	111
All Syphilis Infections	2																					2
GC and CT Infections	26	1		2				1		1				2		3	13	4				53

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction